

ORCHIDACEAE NOVAE MALAYENSES XVIII *)

by

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(Oegstgeest).

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Tropidia multiflora J. J. S. n. sp. — Fig. 1.

Planta parva. Caules erecti, tenues, basi tantum ramosi, basi radican-
tes, c. 23 cm longi, inferne vaginati, superne 3—4-foliati. Folia erecto-patentia,
lanceolata, acuminata, acutissima, basi acuta,
nervis 5 majoribus sicco subtus et etiam
supra prominentibus pluribusque tenuibus,
sicco membranacea, ad c. 8—12 cm longa,
1.85—2.2 cm lata, ultimum multo angustius;
vagina elongata, tubulosa, prominenter ner-
vosa. Inflorescentia terminalis, erecta, sim-
plex, densissime multiflora, quaquaversa, pe-
dunculo c. 3 cm longo, inferne vagina folii
ultimi incluso, superne vaginula lineari
c. 3 cm longa donato, rachide c. 1.2 cm
longa. Bractee valde approximatae, paten-
tissimae vel subpatentissimae, e basi triangu-
la longe subulato-lineari-acuminatae, 5-nerviae,
ad c. 0.7 cm longae, basi dilatata fere 0.3 cm
longa 0.25 cm lata, superiores minores. Flores
patentes, non resupinati, c. 0.75 cm longi,
sepalis petalisque divergentibus. Sepalum
dorsale cum ovario angulum obtusum faciens,
incurvulum, oblongum, apicem versus angus-
tatum, obtusum, concavum, parte inferiore
dorso parce patentissime puberulum, 3-ner-
vium, c. 0.65 cm longum, 0.225 cm latum.
Sepala lateralia marginibus anticis c. 1/3
longitudinis connata atque rotundato-saccata,
divergentia, 2/5 partibus superioribus recur-
vula, oblique oblonga, subsigmoidea, apice
angustata, acutiuscula, valde concava, dorso

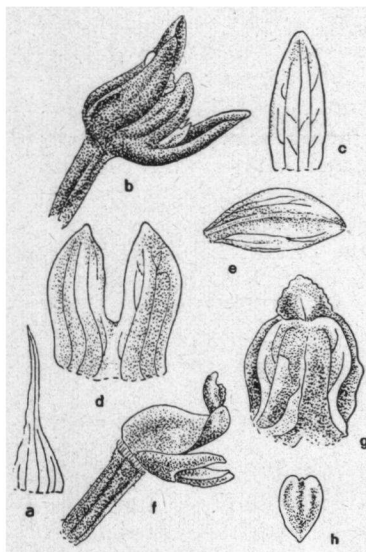


Fig. 1 — *Tropidia multiflora*
J. J. S. n. sp. — a. bractea;
b. flos; c. sepalum dorsale;
d. sepalum laterale; e. petalum;
f. labellum et gynostemium;
g. labellum explanatum;
h. anthera — after type
specimen.

*) XVII in Blumea V (1943), 297.

nonnullis pilis brevibus inspersa, 3-nervia, costa media dorso incrassata, c. 0.64 cm longa, 0.2 cm lata. Petala oblique elliptica, subfalcata, obtuscula, canaliculato-concava, 3-nervia, costa media dorso valde incrassata inter sepala prominente et pilis raris inspersa, c. 0.6 cm longa, 0.25 cm lata. Labellum cum ovario angulum obtusum faciens, gynostemio parallelum, valde concavum, $\frac{2}{5}$ partibus superioribus valde recurvum, apice incurvulum, subtus alte sulcatum, intus valde 3-costatum, costa intermedia in $\frac{1}{3}$ supra basin terminante, costis exterioribus intramarginalibus in bene $\frac{2}{3}$ supra basin arcuato-incurvis et terminantibus, inexplanatum c. 0.475 cm longum, explanatum ambitu quinquangulare-ovatum, infra medium utrinque leviter obtusangule dilatatum, apice in laminam triangulam obtusam crenulatam contractum, 3-nervium, totum fere 0.6 cm longum, fere 0.4 cm latum, lamina 0.15 cm longa, 0.175 cm lata. Gynostemium cum ovario angulum obtusum faciens, rectum, apicem versus paulum incrassatum, dorso convexum, c. 0.375 cm longum, clinandrio concavo, subquadrangulo cum costa longitudinali. Anthera conspicua, cucullata, cordata, acuta, lobulis basilari-bus brevissimis rotundatis, connectivo convexo-costiformi, fere 0.25 cm longa. Pollinia 2, clavata, sulcata, cum stipite longo lineari et glandula parva oblonga fere 0.3 cm longa. Rostellum porrectum, e basi lata acuminatum, acute bidentatum. Stigma margine inferiore semitundatum productumque. Ovarium 6-sulcatum, pilis raris brevibus inspersum, c. 0.45 cm longum.

Soemba: In the eastern part, Maoemaroo, in forest. (*Iboet* n. 425, 7 May 1925; "flowers white").

This species reminds one of *T. Reichenbachiana* Krzl. but the bracts are not unequal, the sepals and petals are not acuminate, the lateral sepals are connate to $\frac{1}{3}$ of their length, the petals are elliptic and the top of the lip is minutely crenulate.

Description from an apparently young dried specimen.

Dendrochilum (sect. *Platyclinis*) **muriculatum** (J. J. S.) J. J. S. n. comb. — *Basigyne muriculata* J. J. S. in Bull. Jard. Bot. Buit. 2e sér. XXV (1917) 5.

Celebes: G. Tolongan. (Exp. L. van Vuuren, Mantri Rachmat n. 1001, January 1914). Central Celebes, Mandar, G. Mamboeliling, north of Mamasa, above 2500 m, mountain-forest. (*C. Monod de Froideville* n. 111, 1938; L).

The genus *Basigyne* was based with some hesitation on a single, much pressed specimen, collected by Mantri Rachmat of the Botanic Gardens, Buitenzorg, during the expeditions of Prof. L. van Vuuren to Celebes. The species was redetected by Mr C. Monod de Froideville on Mt Mamboeliling, but it is to be pitied that no flowers in spirit were secured. However, the study of an allied species in the same collection in which the stigma is not situated at the base of the column, makes it probable that the genus *Basigyne* had better be abolished and united with *Dendrochilum* Bl.

Dendrochilum (sect. *Platyclinis*) **Monodii** J. J. S. n. spec. — *Fig. 2.*

Pseudobulbi approximati, sicco e basi anguste oblongo-ovoidea sensim attenuati, 2.3 cm longi, 1-folii, vaginis anguste tubulosis opacis haud vel obsolete punctatis ad 4.5 cm longis ad basin. Foliolum petiolatum, lanceolatum, sensim angustatum, acutum, basi in petiolum acuminatum acutum, sicco papyraceum, nervis 5 majoribus numerosisque minoribus sicco promi-

nulis, 7.4—7.8 cm longum, 1.5—1.6 cm latum; petiolus 2.7—3.2 cm longus. Inflorescentia in pseudobulbo submaturo, gracilis, folium longe superans, laxe multiflora, pedunculo filiformi c. 9.5 cm longo, rachide vix flexuosa angulata laxissime et brevissime muriculata 11 cm longa, internodiis 0.4—

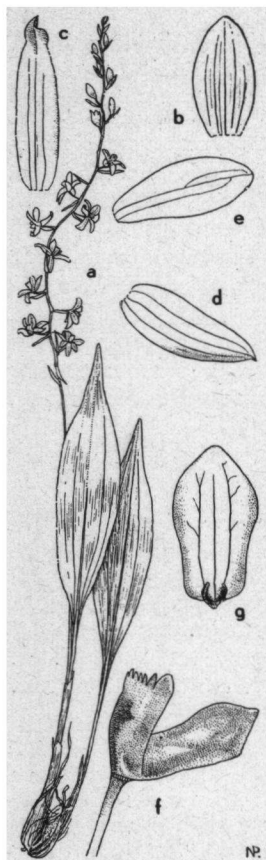


Fig. 2 — *Dendrochilum Monodii* J. J. S. n. sp. — a. habitus $\times \frac{1}{2}$; b. bractea; c. sepalum dorsale; d. sepalum laterale; e. petalum; f. labellum et gynostemium; g. labellum expansum — after type specimen.

0.5 cm longis. Bractee patentissimae, marginibus involutis, expansae subovato-ovales, obtusae, 5-nerviae, 0.425 cm longae, 0.2 cm latae. Flores c. 21, patentissimi, macerati c. 0.5—0.675 cm diam., sepalis petalisque patentissimis. Sepalum dorsale anguste oblongum, subacutum, apice recurvum, 3-nervium, c. 0.5 cm longum, 0.1 cm latum. Sepala lateralia oblique ovato-oblonga, brevissime acute acuminata, 3-nervia, c. 0.5 cm longa, 0.175 cm lata. Petala subobovato-oblonga, obtusa, basin versus sensim paulum angustata, 2—3-nervia, 0.45 cm longa, supra medium 0.175 cm, supra basin 0.125 cm lata. Labellum ad basin gynostemii insertum, cum gynostemio angulum acutum faciens, parte inferiore convexum, simplex, omnino integerrimum, glabrum, 3-nervium; callo orbiculari annulari antice interrupto (vel lamellis 2 longitudinalibus brevibus semiorbicularibus) ad basin, 0.45 cm longum, parte inferiore longitudine 0.175 cm paulum contractum hypochilium sicco convexum subquadratum angulis basalibus rotundatum 0.17 cm latum sensim in epichilium brevi-ovatum obtusum minutissime apiculatum 0.275 cm longum bene 0.2 cm latum dilatatum faciente. Gynostemium satis conspicuum, subrectum, labello brevius, late alatum, 0.34 cm longum, ala apice lata truncata 3-lobulata, lobulo intermedio lato truncato in lacinulas 8—9 subirregulares angustas subulatas ad triangulas parallelas partito, lobulis lateralibus vix longioribus porrectis integris rhomboideis obtusis. Pollinia 4, pyriformia. Stigma cupuliforme, circiter in medio gynostemii. Ovarium pedicellatum 0.3 cm longum.

Celebes: Central Celebes, Mandar, G. Mamboelling, above 2500 m, mountain-forest. (C. Monod de Froideville n. 110, 1938; L).

Apparently this species is allied to *D. muriculatum* J. J. S., on which I based in 1917 the genus *Basigyne*. Other nearly related species are as yet unknown to me. It has the same habit, petioled and manifestly acuminate leaves, a loose, more or less muriculate inflorescence, a simple lip, and

the lateral wings of the column seemingly make part of the terminal wing. The new species differs from *D. muriculatum* in the longer, more-flowered, far less conspicuously muriculate inflorescence, smaller glabrous flowers with an at the base not hooded dorsal sepal, very different petals, a

broadier lip, a much larger column with the middle portion of the apical wing much lacinulate, the stigma not situated at the base of the column but nearly halfway the top. It would be very desirable to study fresh or in alcohol preserved flowers.

Description from herbarium.

Microstylis (sect. *Crepidium*) *mambulilingensis* J. J. S. n. sp. — Fig. 3.

Pusilla. Rhizoma decumbens, tenue, parte praesente 7 cm longa, pseudobulbo erecto, 1.75 cm longo, foliato. Folia c. 6, oblique lanceolata, subfalcatula, apicem versus sensim angustato-acuminata, apice plus minusve conduplicata, acuta, basi angustata canaliculata in vaginam abientia, crispula, nervis majoribus 3—5 tenuibus interpositis, costa media dorso carinata, sicco membranacea, majora 2.9—3.5 cm longa, 0.8—0.7 cm lata, vagina 1.3—1.5 cm longa, folium infimum minimum, 0.3 cm longum. Inflorescentia terminalis, erecta, laxe multiflora, folia bene superans, pedunculo anguste alato, 2.5 cm longo, rachide anguste alata 5.5 cm superante internodiis 0.25—0.4 cm longis. Bractee patentissimae, deinde subreflexae, lanceolato-subulatae, acutae, 1-nerviae, 0.36—0.4 cm longae. Flores c. 21, parvi. Sepalum dorsale ovato-oblongum, obtusum, convexum, 1-nervium, 0.25—0.275 cm longum, 0.125—bene 0.125 cm lata. Sepala divergentia, oblique ovato-ovalia, rotundata, convexa, margine valde recurva, 2-nervia, 0.18—0.2 cm longa, 0.15 cm lata. Petala linearia, marginibus recurvis dorso contiguis, obtusa, vix retusa, 1-nervia, 0.25—0.26 cm longa, 0.05—0.06 cm lata. Labellum hippocrepidiforme, breve, latum, in toto 0.25 cm, a loco insertionis 0.13 cm longum, 0.4 cm latum, lobulo intermedio minuto, aequilateraliter trapeziformi leviter retuso, 0.025 cm longo, utrinque laciniis 5 subaequalibus lobulo bene longioribus subulatis plus minusve falcatulis usque 0.1 cm longis, lacinia exteriore paulo minore triangula, auriculis breviusculis oblique triangulis obtusis 0.08—0.1 cm longis basi c. 0.1 cm latis, foveae marginibus incrassatis. Gynostemium a dorso compressum, oblongo-quadrangulum, 0.13 cm longum, auriculis divergentibus deinde erecto-patentibus. Anthera reniformis, apice lata. Pollinia 4, in corpuscula 2 obcordato-ovatis unita. Ovarium pedicellatum 0.54 cm longum.

Celebes: Central Celebes, Mandar, G. Mamboeliling, 2700 m (C. Monod de Froideville n. 106, December 1937—April 1939; L).

This is an elegant little species which has many allies in the Malay Archipelago. In the shape of the flowers it much resembles *M. purpureo-viridis* J. J. S. from the Talaud Islands (H. J. Lam ns. 3239 and 2569) but it is a smaller plant with narrower leaves and

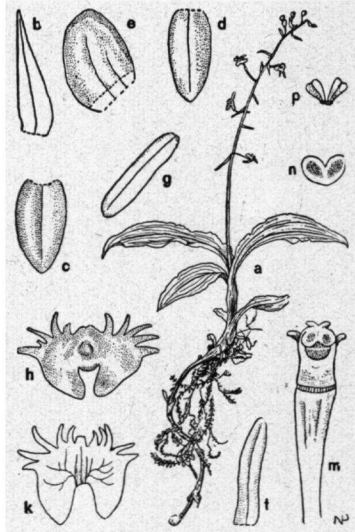


Fig. 3 — *Microstylis mambulilingensis* J. J. S. n. sp. — a. habitus $\times \frac{1}{2}$; b. bractea; c, d. sepalia dorsalia; e. sepalum laterale; f, g. petala; h, k. labella; m. gynostemium; n. anthera; p. pollinarium — after type specimen.

smaller flowers with 5 teeth on either side of the smaller midlobe of the lip.

Description from a dried specimen.

Liparis (sect. *Rachidibulbon*) **Hagerupii** J. J. S. n. sp. — Fig. 4.

Rhizoma abbreviatum, innovationibus basi vaginis imbricantibus tectis. Folium solitarium, probabiliter ovatum, c. 8.5 cm longum, 5.5 cm latum; petiolus cum vagina c. 1.5 cm longus. Inflorescentia terminalis, laxe pluriflora, pedunculo alato, c. 5.5 cm longo basi in pseudobulbum incrassato, rachide c. 3.5 cm, fructifera 5 cm longa. Bractea triangulae, acutae, pedicello multo breviores. Flores patentes. Sepalum dorsale recurvum, lanceolatum, apicem versus sensim angustatum, obtusum, convexum, 3-nervium, c. 0.7 cm longum, fere 0.2 cm latum. Sepala lateralia sub labello

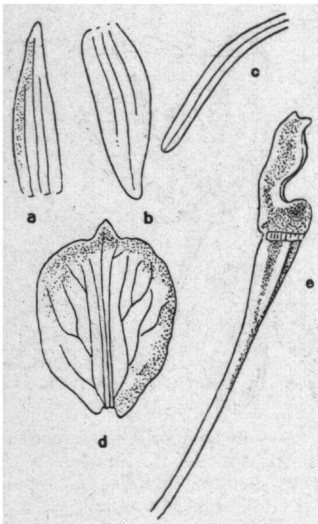


Fig. 4. — *Liparis Hagerupii* J. J. S. n. sp. — a. sepalum dorsale; b. sepalum laterale; c. petalum; d. labelum expansum; e. gynostemium — after type specimen.

porrecta, parallela, oblique anguste oblonga, apicem versus angustata et leviter acuminata, obtusa, marginibus valde recurvis, 3-nervia, costa media dorso prominente, c. 0.65 cm longa, bene 0.2 cm lata. Petala arcuato-recurva, linearia, obtusa, valde convexa, 1-nervia, c. 0.64 cm longa, 0.08 cm lata. Labellum porrectum, basi gynostemio parallelum, recurvulum, leviter obtusangule canaliculatum cum lateribus leviter convexis, costa leviter convexa in canalicula, basi canaliculatum, dorso costa longitudinali convexo-prominente instructum, explanatum late obovatum, apice abrupte subtruncato-triangulo-productum, basi angustatum et auriculis 2 parvis obtusis donatum, nervis 3 valde approximatis, exterioribus ramosis, totum c. 0.72 cm longum, 0.54 cm latum. Gynostemium vix curvulum, in utraque stigmatis parte obtusangule alato-dilatatum, basi subtus valde calloso-incrassatum, c. 0.3 cm longum. Ovarium 6-angulatum, cum pedicello tenuiore 1 cm longum. Capsula pedicellata, erecta in valvas 6 lineares dehiscens.

Sumatra: Toba (*O. Hagerup* n. 47 p.p., 1916—'17).

A very near ally of *L. latibasis* J. J. S., and especially similar in the shape of the column. It differs in the obovate lip being shortly 2-auriculate at base, rotundate, not or hardly retuse at the top and with an imposite triangular, blunt terminal lobule.

The colour has not been noted.

Description from a single, damaged, dried specimen.

Bulbophyllum (sect. *Aphanobulbon*) **falculicorne** J. J. S. n. sp. —

Fig. 5.

Rhizoma elongatum, ramosum, teres, initio vaginis acuminatis tectum, parte praesente c. 6.5 cm longa, sicco 0.125 cm diam. Pseudobulbi remoti, parvi, rhizomati adpressi 0.14 cm longi, 1-folii. Folium petiolatum, lanceolatum, sensim angustatum, acutum, basi cuneata acutum, sicco rigidulum, tenuiter

coriaceum, 5–6.75 cm longum, 0.55–1 cm latum; petiolus distinctus, sulcatus, 0.2–0.55 cm longus. Inflorescentiae e nodis rhizomatis, folio bene breviores, laxe pauciflorae, 0.9–1.5 cm longae, pedunculo 0.5–0.8 cm longo nonnullis vaginulis sese amplectentibus adpressis acuminatis donato, rachide 0.5–0.6 cm longa, internodiis 0.2–0.25 cm longis. Bractee patentissimae vel plus minusve recurvae, ovato-lanceolatae, sensim acuminatae, concavae, sicco usque bene 0.3 cm longae. Flores 2–3, macerati c. 0.6 cm longi. Sepalum dorsale porrectum, anguste oblongum, conico-apiculatum, basi leviter contractum, concavum, 3-nervium, 0.55 cm longum, superne bene 0.15 cm, inferne bene 0.1 cm latum. Sepala lateralalia cum pede gynostemii mentum breve incurvum cum ovario angulum acutum faciens dorso convexum 0.2 cm longum formantia, oblique ovato-triangularia, acuta, subulato-apiculata, concava, 3-nervia, 0.56 cm longa, basi 0.275 cm, supra basin 0.3 cm lata. Petala parva, porrecta, lanceolato-linearialia, obtusiuscula, falcatula, convexa, bene dimidio superiore intus papilloso-puberula, parte inferiore glabra, 1-nervia, 0.225 cm longa, 0.04 cm lata. Labellum ungue brevissimo pedigynostemii insertum, mobile, erectum, ante medium recurvum, versus apicem angustatum, obtusum, inferne lateribus erectis dilatatis canaliculatum, parte antica convexum, subtus concavum, maceratum fere 0.3 cm longum. Gynostemium brevissimum, auriculis porrectis, e basi dilatata subulato-acuminatis, pede cum ovario angulum acutum faciente, lineari, superne incurvo et a sepalis lateralibus libero, apice brevissime recurvo incurvoque, 0.15 cm longo, callo conspicuo conico recurvo ad basin infra stigma. Ovarium oblique obconicum, 0.175 cm longum; pedicellus tenuior, 0.075 cm longus.

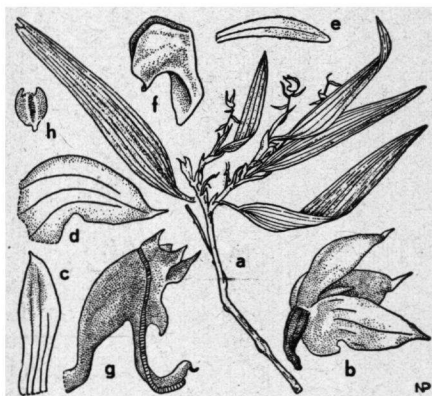


Fig. 5 — *Bulbophyllum falcuicorne* J. J. S. n. sp. — a. habitus $\times \frac{1}{2}$; b. flos; c. sepalum dorsale; d. sepalum laterale; e. petalum; f. labellum; g. gynostemium; h. anthera — after type specimen.

Celebes: Central Celebes, Mandar, G. Mamboeliling, near Mamasa, 2700 m. (C. Monod de Froideville n. 108, December 1937–April 1939; L).

To all appearance this specimen is a portion of a bigger plant, so that for the present it cannot be said whether the plant has a creeping or a pendulous habit. It shows some likeness with *B. perpendiculare* Schltr. and with *B. agapethoides* Schltr. The principal distinguishing characters are the rather small, petioled, lanceolate, acute leaves and the short, few-flowered inflorescences. In the narrow petals, for the greater part, except for the base, papillate-puberulous inside, it recalls to mind *B. auroreum* J. J. S. from Sumatra which for the rest is a quite different plant. The column-foot, which is much incurved in the upper part, bears at the base inside a conspicuous talon-shaped, recurved callus.

Description from a small dried portion of the plant.

Microtatorchis (sect. *Eumicrotatorchis*) *Iboetii* J. J. S. n. sp. — Fig. 6.

Planta pumila, epiphytica, caule abbreviato, paucifolio, radicibus linearibus, compressis, 7–11 cm longis, 0.2–0.23 cm latis. Folia parva, erecta, carnosa, cuneato-oblongo-obovata, breviter acuminata, acuta, basin versus sensim angustata, dorso carinata, 1.1–1.7 cm longa, 0.4–0.45 cm lata. Inflorescentiae pedunculatae, distichae, laxae satis multiflorae, circiter 3.5 cm longae, diu flores gignentes, pedunculo anguste alato-angulato, 1.5 cm longo, rachide alato-angulata, c. 2 cm longa, internodiis 0.15–0.2 cm longis. Bractee alternatim bifariae, subpatentissimae, late ovato-triangularae, acutae, carnosulae, c. 0.1 cm longae, appendicibus stipulaceis nullis. Flores c. 14, parvi, succedanei, carnosuli, 0.28 cm longi, sepalis petalisque inferne fere medium usque in tubum antice fissum connatis, 1-nerviis. Sepalum dorsale oblongum, obtusum, c. 0.2 cm longum, parte libera 0.14 cm longa, 0.07 cm lata. Sepala lateralia oblonga, obtusa, 0.2 cm longa, parte libera 0.14 cm longa. Petala quam sepala bene breviora, 0.15–0.16 cm longa, parte libera e basi contracta ovato-triangulara, subobtusa, 0.08 cm longa, 0.075 cm lata. Labellum 3-lobum, calcaratum, totum 0.18–0.2 cm, a loco insertionis 0.16 cm longum; lobi laterales ante gynostemium erecti, paralleli, trianguli, apice rectangulo acuti; lobus intermedius porrectus, cum labelli parte inferiore angulum obtusum faciens, carnosus, rectus, subteres, oblongus, obtusus; calcar reversum, supra basin incurvum, cum ovario angulum acutum faciens, breve, basi contractum, parte incurva inflata facie inferiore (antica) subplana ambitu rotundato-quadrangula elobata, apice rotundatum, fere 0.1 cm longum.

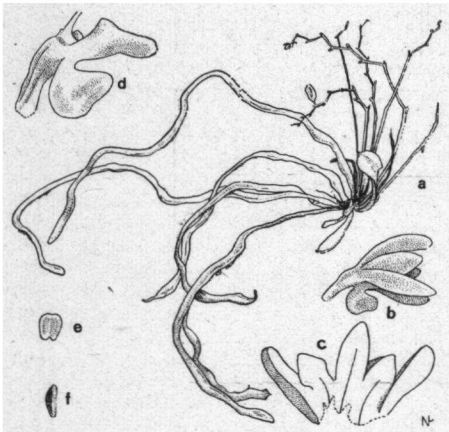


Fig. 6 — *Microtatorchis Iboetii* J. J. S. n. sp. — a. habitus $\times \frac{1}{2}$; b. flos; c. sepala petalaeque explanata; d. labellum et gynostemium; e. anthera; f. pollinium — after type specimen.

Gynostemium brevissimum, latum, 3-lobulatum, lobo intermedio (clinandrio) concavo, lobis lateralibus stigmaticis. Anthera minuta, cucullata, ovato-quadrangula, apice lato emarginata. Pollinia 2, oblonga. Ovarium crassiusculum, angulatum, cum pedicello subaequilongo paulo tenuiore 0.14 cm longum. Capsula immatura oblique oblonga, subcylindrica, angulata, apice incurvula, 0.5 cm longa, 0.26 cm diam., pedicello 0.13 cm longo.

Moluccas: Isle of Tidore, G. Mala-mala, 800 m, a few specimens epiphytic in old forest. (*H. J. Lam n. 3686*, 7 July 1926; "flowers light yellow, green when young, column light yellow, black tipped").

Amongst the species of section *Eumicrotatorchis*, *M. Iboetii* has several characters in common especially with *M. ceratostylis* Schltr. from New Guinea. It differs from the said species in the blunter sepals and lip, the much shorter petals, the subterete midlobe and the erect, triangular, at the top rectangular-acute side lobes of the lip. In *M. potamophila* Schltr.

from New Guinea the spur is also much incurved and the petals are much shorter than the sepals but the spur is much longer and the inflated top lobed, and the blade of the lip is very different.

The species has been named in remembrance of Mantri Iboet, the humble and devoted plant collector of the Buitenzorg Herbarium, who took part in several collecting expeditions in the Malay Archipelago and also accompanied Dr Lam on his journey to the Talaud Islands and Morotai.

Description from material preserved in alcohol.

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An asterisk denotes new species and new combinations. Synonyms in italics.

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